

Suppression of transition dipole moments in radioactive atoms

Gainutdinov R., Petrova A., Mutygullina A.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

Optical emission from radioactive atoms is investigated. It is shown that the radioactivity of the central nucleus results in the suppression of the optical transition dipole moment in the corresponding atom. The situations are regarded when this suppression is significant and can be experimentally observed.

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